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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/696,717	10/29/2003	Wylie Vale	D6257D 6470	
7590 08/18/2006			EXAMINER	
David L. Parker			STOICA, ELLY GERALD	
Fulbright & Jaworski LLP 600 Congress Avenue			ART UNIT	PAPER NUMBER
Suite 78701			1647	
Austin, TX 78	701		DATE MAILED: 08/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/696,717	VALE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Elly-Gerald Stoica	1647				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	_•					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,4-12 and 15-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1,4-12 and 15-33</u> are subject to restric	ction and/or election requirement					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom repulsation (F 10-134)				

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1, 4-12, drawn to a method of augmenting the activin induced signaling in a cell by inhibiting the formation of Inhibin/betaglycan complexes, classified in class 424, subclass 158.1.
 - II. Claims 15-25, drawn to drawn to a method of inhibiting the activin induced signaling in a cell by augmenting the formation of Inhibin/betaglycan complexes, classified in class 530, subclass 395
 - III. Claims 26-29, drawn to a method of screening for a compound that augments activin induced signaling, classified in class 435, subclass 7.2.
 - IV. Claims 30-33, drawn to a method of screening for a compound that inhibits activin induced signaling, classified in class 435, subclass 7.2.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are directed to related methods of modulation of activin signaling. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the method of augmenting the activin induced signaling in

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a cell by inhibiting the formation of Inhibin/betaglycan complexes of Invention I is mutually exclusive to the method of inhibiting the activin induced signaling in a cell by augmenting the formation of Inhibin/betaglycan complexes of Invention II. The two methods have opposite outcomes and cannot be used together.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Inventions III and IV are directed to related method of screening for compounds that modulate activin signaling. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the method of screening for compounds that augment the activin induced signaling in a cell by inhibiting the formation of Inhibin/betaglycan complexes of Invention III is mutually exclusive to the method of screening for compounds that inhibit the activin induced signaling in a cell by augmenting the formation of Inhibin/betaglycan complexes of Invention IV. The two methods have opposite outcomes and cannot be used together.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

3. Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case Invention III is a product by process claim and the compounds detected by the Invention III may be used in the method of augmenting the activin induced signaling in a cell by inhibiting the formation of Inhibin/betaglycan complexes. However, the inhibition of formation of Inhibin/betaglycan may be achieved by treatment of cells with RNAi targeted towards the mRNA of either inhibin or betaglycan and thus the desired effect of the Invention I is achieved without using the products detected with the method of the Invention III.

Inventions II and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case Invention IV is a product by process claim and the compounds detected by the Invention IV may be used in the method of inhibiting the activin induced signaling in a cell by augmenting the formation of Inhibin/betaglycan

complexes. However, the augmenting of formation of Inhibin/betaglycan complexes may be achieved by treatment of cells with Inhibin or betaglycan expression vector which will raise the amount of inhibin and betaglycan and achieve the desired effect of Invention II without using the products detected with the method of the Invention IV.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

4. Each of the pair of Inventions (I-IV) and (II-III) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions I and IV have different modes of operations and are not capable of use together since the screening method of the Invention IV would identify compound that inhibit activin induced signaling in total opposition with the desired effects of Invention I, which is to augment the activin induced signaling. The same rationale will apply for Invention III in which the screening

will yield compounds that augment activin induced signaling and cannot be used together with invention II which has the goal of inhibiting the activin induced signaling in a cell.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Election of species

5. This application contains, in Invention I, claims directed to the following patentably distinct species: an antisense construct and a mutagenized allele. The species are independent or distinct because they each have a different structure and function, which require separate searches, and wherein each is capable of separate manufacture and use.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic.

This application contains, in Invention II, claims directed to the following patentably distinct species: administration of a protein and gene therapy. The species are independent or distinct because the augmentation of the Inhibin /betaglycan complexes can be achieved by either exogenous administration of inhibin or by constitutive expression of an inhibin expression vector introduced in a cell ("gene therapy"). The methods are distinct both physically and functionally, and are not

required one for the other. Therefore, a search and examination of both methods in one patent application would result in an undue burden, since the searches for both methods are not co-extensive, the classification is different, and the subject matter is divergent.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elly-Gerald Stoica whose telephone number is (571) 272-9941. The examiner can normally be reached on 8:30-17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda G. Brumback can be reached on (571) 272-0961. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LORRAINE SPECTOR
PRIMARY EXAMINER